



PTO/SB/08A (10-01)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Substitute for form 1449A/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/665,439
		Filing Date	18 September 2003
		First Named Inventor	Lester F. Ludwig
		Group Art Unit	UNKNOWN
		Examiner Name	UNKNOWN
Sheet	1	of	5
		Attorney Docket Number	2738-11

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
XZL	A1	US-3,519,331	07-07-1970	Cutrona et al.	
	A2	US-4,572,616	02-25-1986	Kowal et al.	
	A3	US-5,016,976	05-21-1991	Homer et al.	
	A4	US-5,061,046	10-29-1991	Lee et al.	
	A5	US-5,323,472	08-21-1994	Falk	
	A6	US-5,418,618	05-16-1995	Juday	
	A7	US-5,428,521	08-20-1995	Chen et al.	
	A8	US-5,432,336	07-11-1995	Carangelo et al.	
	A9	US-5,544,252	08-08-1996	Iwaki et al.	
	A10	US-5,708,139	01-06-1998	Kelly	
	A11	US-5,815,233	09-29-1998	Morokawa et al.	
	A12	US-5,859,728	01-12-1999	Colin et al.	
	A13	US-5,859,776	09-28-1999	Pasch	
	A14	US-6,021,005	02-01-2000	Cathey, Jr. et al.	
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	A17	US-6,404,553 B1	06-11-2002	Wootton et al.	
	A18	US-6,421,163 B1	07-16-2002	Culver et al.	
Y	A19	US-6,505,252 B1	01-07-2003	Nagasaki	

FOREIGN PATENT DOCUMENTS

Examiner Signature	X Patel	Date Considered	9/17/05
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³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 If possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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+ OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

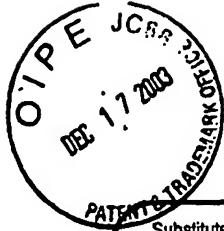
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
XRP	C1	SUMIYOSHI ABE, et al., "An optical implementation for the estimation of the fractional-Fourier order", Optics Communications 137 (May 1, 1997), 214-218.	
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	C7	Y. BITRAN, H. M. OZAKTAS, D. MENDLOVIC, R.G.DORSCH, A. W. LOHMAN, "Fractional Fourier Transform: Simulations and Experimental Results," Applied Optics vol. 34 No. 8, Mar. 1995. pp. 1329-1332.	
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	C10	B. W. DICKINSON AND D. STEIGLITZ, "Eigenvectors and Functions of the Discrete Fourier Transform," in IEEE Transactions on Acoustics, Speech, and Signal Processing, vol. ASSP-30, No. 1, Feb. 1982.	
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Group Art Unit	UNKNOWN
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>AKZL</i>	C12.	M. FATIH ERDEN, et al., "Design of dynamically adjustable anamorphic fractional Fourier transformer", Optics Communications 136 (Mar. 1, 1998), pp. 52-60.	
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	C14.	G. B. FOLLAND, Harmonic Analysis in Phase Space, Princeton University Press, Princeton, NJ, 1989. pp. 51-55, 223-224, 236-239, 193.	
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	C16	E. HECHT, "Grin Systems", Optics. Third Edition, Ch. 6, section 6.4, pp. 277-280, Addison-Wesley publishing, (c) 1998.	
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Examiner Signature	<i>AKZ Patel</i>	Date Considered	<i>9/17/05</i>
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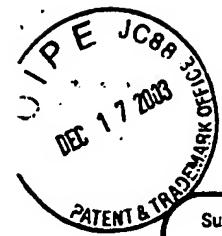
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KFBL	C22	M. A. KUTAY, "Generalized Filtering Configurations with Applications in Digital and Optical Signal and Image Processing," doctoral dissertation at Bilkent Univ. Feb. 24, 1999.	
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ozsl	C33,	H. M. OZAKTAS, D. MENDLOVIC, "Fractional Fourier Transforms and their Optical Implementation I," Journal of the Optical Society of America, A vol. 10, No. 9, pp. 1875-1881, Sep. 1993.	
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